



## NG SCREW COMPRESSOR OIL MINERAL OIL BASED COMPRESSOR FLUIDS FOR NATURAL GAS

### Introduction

Petro-Canada's NG Screw Compressor Oil fluids are designed for use in flooded screw compressors in natural gas production and service and are intended for the compression of the lightest hydrocarbon gases at moderate discharge temperatures.

These hydrotreated (HT) mineral oil based fluids include select additive chemistry to help protect metal surfaces against corrosion and to provide excellent performance in harsh natural gas streams. The additive system is compatible with sour (H<sub>2</sub>S) hydrocarbon gas systems.

### Features and Benefits

- **Protects equipment from corrosion in sour gas streams**
- **Low temperature fluidity minimizes wear in cold temperature starts**
- **Good water separation**
- **Excellent lubricity**
- **Excellent shear stability**
- **Cost-effective**

### Applications

NG Screw CompOil compressor fluids are used for flooded screw compressors in natural gas field booster service. Although these fluids are primarily intended for dry, light and clean natural gas service, at moderate temperatures and pressures, they can be used in select applications where water, H<sub>2</sub>S and/or CO<sub>2</sub> contaminate the natural gas streams.

NG Screw CompOil fluids are specifically recommended for:

- **Compression of the lightest hydrocarbon gases (methane and ethane) where the expected dilution is <10 wt%, and discharge temperatures are moderate (<99 °C / 210 °F)**
- **Compression of sour natural gas streams**
- **Available in ISO 100 and ISO 150 viscosity grades**

For more difficult gas streams, where heavy hydrocarbons and/or high CO<sub>2</sub> are present, NG CompOil PAO 150 or the SPX 7000 series of PAG screw compressor fluids may be a better fit.

Please contact a Petro-Canada Technical Services Advisor, who can recommend an appropriate fluid for your application.

## Typical Performance Data

PROPERTY	Test Method	NG CompOil 100	NG CompOil 150
Appearance		Colourless to yellow	Colourless to yellow
Density, kg/L at 15°C	ASTM D4052	0.874	0.866
Kinematic Viscosity cSt at 40°C cSt at 100°C	ASTM D445	100 12	154 17
Viscosity Index	ASTM D2270	108	121
Flash Point, COC, °C / °F	ASTM D92	243/469	263/505
Acid Number (AN), mg KOH / g	ASTM D664	<0.10	<0.10
Pour Point, °C / °F	ASTM D5950	-33 / -27	-30 / -22
Brookfield Viscosity @-25°C, cP	ASTM D2983	110,400	44,200
Mechanical Emulsion, 82°C	ASTM D1401	41-39-0 (5)	41-39-0 (5)
Cu Corrosion, 100°C, 3hrs	ASTM D130	1a	1a
4-ball weld, kg	ASTM D2596	126	126

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IM-8096E (2016.04)

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